PANEL SCHEDULE: 212CHA (CRITICAL BRANCH) (EXISTING)

VOLTS/PHASE: 480Y/277V, 3PH, 4W
BUS AMPS: 225A — FAULT CURRENT:
MAIN SIZE/TYPE: 225A/MCB — AIC RATING:
MOUNTING: SURFACE — LOCATION:

SECTION 1

NO.	DESCRIPTION	LOAD/VA	WIRE	BKR.	PHASE	BKR.	WIRE	LOAD/VA	DESCRIPTION	NO.
1	EXISTING LOAD	1500	EXIST.	20/1	A	20/1	EXIST.	1500	EXISTING	2
3	EXISTING LOAD	1500	EXIST.	20/1	B	20/1	EXIST.	1500	EXISTING	4
5	**LIGHTING**	**1125**	**#12**	**20/1**	C				SPACE	6
7	SPACE				A				SPACE	8
9	SPACE				B				SPACE	10
11	SPACE				C				SPACE	12
13	SPACE				A				SPACE	14
15	SPACE				B				SPACE	16
17	SPACE				C				SPACE	18
19	SPACE				A				SPACE	20
21	SPACE				B				SPACE	22
23	SPACE				C				SPACE	24
25	SPACE				A				SPACE	26
27	SPACE				B				SPACE	28
29	SPACE				C				SPACE	30
31	SPACE				A				SPACE	32
33	SPACE				B				SPACE	34
35	SPACE				C				SPACE	36
37	EXISTING	8488	EXIST.	50/3	A	50/3	EXIST.	9196	EXISTING	38
39		8488			B			9196		40
41		8488			C			9196		42

DEMAND LOAD CALC.	TOTAL→ PHASE A	PHASE B	PHASE C	CONNECTED LOAD KVA	AMPS	DEMAND LOAD KVA	AMPS	PANEL NOTES
LIGHTING X 125%	0.0	0.0	1.1	1.1	1.4	1.4	1.7	
RECEPTACLES @ 10KW+50%	3.0	3.0	0.0	6.0	7.2	6.0	7.2	
EQUIPMENT @ 100%	17.7	17.7	17.7	53.1	63.8	53.1	63.8	
HVAC COOLING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Total Demand KVA: 60.5
TOTAL ▼	20.7	20.7	18.8	60.2	72.4	60.5	72.7	Total Demand Amps: 72.7

PANEL SCHEDULE: 212SHA (LIFE SAFETY BRANCH) (EXISTING)

VOLTS/PHASE: 480Y/277V, 3PH, 4W
BUS AMPS: 100A — FAULT CURRENT:
MAIN SIZE/TYPE: 100A/MCB — AIC RATING:
MOUNTING: SURFACE — LOCATION:

SECTION 1

NO.	DESCRIPTION	LOAD/VA	WIRE	BKR.	PHASE	BKR.	WIRE	LOAD/VA	DESCRIPTION	NO.
1	EXISTING	750	EXIST.	20/1	A	20/1	EXIST.	750	EXISTING	2
3	EXISTING	750	EXIST.	20/1	B	20/1	EXIST.	750	EXISTING	4
5	EXISTING	750	EXIST.	20/1	C	20/1	**#12**	**220**	**NEW LIGHTING**	6
7	SPARE			20/1	A	20/1			SPARE	8
9	SPARE			20/1	B	20/1			SPARE	10
11	SPARE			20/1	C	20/1			SPARE	12
13	SPARE			20/1	A	20/1			SPARE	14
15	SPARE			20/1	B	20/1			SPARE	16
17	SPACE				C				SPACE	18
19	SPACE				A				SPACE	20
21	SPACE				B				SPACE	22
23	SPACE				C				SPACE	24
25	SPACE				A				SPACE	26
27	SPACE				B				SPACE	28
29	SPACE				C				SPACE	30
31	SPACE				A				SPACE	32
33	SPACE				B				SPACE	34
35	SPACE				C				SPACE	36
37	SPACE				A				SPACE	38
39	SPACE				B				SPACE	40
41	SPACE				C				SPACE	42

DEMAND LOAD CALC.	TOTAL→ PHASE A	PHASE B	PHASE C	CONNECTED LOAD KVA	AMPS	DEMAND LOAD KVA	AMPS	PANEL NOTES
LIGHTING X 125%	0.0	0.0	0.2	0.2	0.3	0.3	0.3	
RECEPTACLES @ 10KW+50%	1.5	1.5	0.8	3.8	4.5	3.8	4.5	
EQUIPMENT @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC COOLING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Total Demand KVA: 4.0
TOTAL ▼	1.5	1.5	1.0	4.0	4.8	4.0	4.8	Total Demand Amps: 4.8

PANEL SCHEDULE: 212NHB (NORMAL BRANCH) (EXISTING)

VOLTS/PHASE: 480Y/277V, 3PH, 4W
BUS AMPS: 100A — FAULT CURRENT:
MAIN SIZE/TYPE: MLO — AIC RATING:
MOUNTING: SURFACE — LOCATION:

SECTION 1

NO.	DESCRIPTION	LOAD/VA	WIRE	BKR.	PHASE	BKR.	WIRE	LOAD/VA	DESCRIPTION	NO.
1	EXISTING	750	EXIST.	20/1	A	20/1	EXIST.	750	EXISTING	2
3	**NEW LIGHTING**	**850**	**#12**	20/1	B	20/1	EXIST.	750	EXISTING	4
5	SPACE				C				SPACE	6
7	SPACE				A				SPACE	8
9	SPACE				B				SPACE	10
11	SPACE				C				SPACE	12
13	SPACE				A				SPACE	14
15	SPACE				B				SPACE	16
17	SPACE				C				SPACE	18
19	SPACE				A				SPACE	20
21	SPACE				B				SPACE	22
23	SPACE				C				SPACE	24
25	SPACE				A				SPACE	26
27	SPACE				B				SPACE	28
29	SPACE				C				SPACE	30
31	SPACE				A				SPACE	32
33	SPACE				B				SPACE	34
35	SPACE				C				SPACE	36
37	SPACE				A			750	RECEPTACLES	38
39	SPACE				B	70/3	EXIST.	750		40
41	SPACE				C			750		42

DEMAND LOAD CALC.	TOTAL→ PHASE A	PHASE B	PHASE C	CONNECTED LOAD KVA	AMPS	DEMAND LOAD KVA	AMPS	PANEL NOTES
LIGHTING X 125%	0.0	0.9	0.0	0.9	1.0	1.1	1.3	
RECEPTACLES @ 10KW+50%	2.3	1.5	0.8	4.5	5.4	4.5	5.4	
EQUIPMENT @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC COOLING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Total Demand KVA: 5.6
TOTAL ▼	2.3	2.4	0.8	5.4	6.4	5.6	6.7	Total Demand Amps: 6.7

PANEL SCHEDULE: 212CLA (CRITICAL BRANCH) (EXISTING)

VOLTS/PHASE: 208Y/120V, 3PH, 4W
BUS AMPS: 225A — FAULT CURRENT:
MAIN SIZE/TYPE: 225A/MCB — AIC RATING:
MOUNTING: SURFACE — LOCATION:

SECTION 1

NO.	DESCRIPTION	LOAD/VA	WIRE	BKR.	PHASE	BKR.	WIRE	LOAD/VA	DESCRIPTION	NO.
1	EXISTING LOAD	1000	EXIST.	20/1	A	20/1	EXIST.	1000	EXISTING LOAD	2
3	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1000	EXISTING LOAD	4
5	EXISTING LOAD	1750	EXIST.	20/2	C	30/2	EXIST.	1750	EXISTING LOAD	6
7		1750			A			1750		8
9	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1000	EXISTING LOAD	10
11	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	EXIST.	1000	EXISTING LOAD	12
13	EXISTING LOAD	1000	EXIST.	20/1	A	20/1	EXIST.	1000	EXISTING LOAD	14
15	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1000	EXISTING LOAD	16
17	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	EXIST.	1000	EXISTING LOAD	18
19	**RECEP. BED 3, 4, 5**	**1080**	**#12**	20/1	A	201	EXIST.	1000	EXISTING LOAD	20
21	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1000	EXISTING LOAD	22
23	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	EXIST.	1000	EXISTING LOAD	24
25	EXISTING LOAD	1000	EXIST.	20/1	A	20/1	EXIST.	1000	EXISTING LOAD	26
27	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1000	EXISTING LOAD	28
29	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	EXIST.	1000	EXISTING LOAD	30
31	EXISTING LOAD	1000	EXIST.	20/1	A	20/1	**#12**	**360**	**RECEP. BED 1 & 2**	32
33	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1200	EXISTING LOAD	34
35	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	**#12**	**1000**	**RECEP. MED PREP**	36
37	EXISTING LOAD	1000	EXIST.	20/1	A	20/1	**#12**	**1000**	**P CART RECEP.**	38
39	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	**#12**	**1000**	**C CART RECEP.**	40
41	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	**#12**	**1000**	**X-RAY RECEP.**	42
					SECTION 2					
43	EXISTING LOAD	1000	EXIST.	20/1	A	20/1	EXIST.	1000	EXISTING LOAD	44
45	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1000	EXISTING LOAD	46
47	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	EXIST.	1000	EXISTING LOAD	48
49	EXISTING LOAD	1000	EXIST.	20/1	A	20/1	EXIST.	1000	EXISTING LOAD	50
51	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1000	EXISTING LOAD	52
53	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	EXIST.	1000	EXISTING LOAD	54
55	EXISTING LOAD	1000	EXIST.	20/1	A	20/1	EXIST.	1000	EXISTING LOAD	56
57	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1000	EXISTING LOAD	58
59	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	EXIST.	1000	EXISTING LOAD	60
61	**RECEP. BED 6, 7**	**720**	**#12**	**20/1**	A	20/1	EXIST.	1000	EXISTING LOAD	62
63	**LINEN CART**	**1000**	**#12**	**20/1**	B	20/1		0	SPARE	64
65	**RECEP. BED 8, 9 & 10**	**1080**	**#12**	20/1	C			0		66
67	**BLANKET WARMER**	**1000**	**#12**	20/1	A	20/1	EXIST.	1000	EXISTING LOAD	68
69	EXISTING LOAD	1000	EXIST.	20/1	B	20/1	EXIST.	1000	EXISTING LOAD	70
71	EXISTING LOAD	1000	EXIST.	20/1	C	20/1	EXIST.	1000	EXISTING LOAD	72
73	**RECEP. NURSE STATION**	**540**	**#12**	20/1	A	20/1	**#12**	**1000**	**C CART RECEP.**	74
75	**TERMINAL UNIT CTRLS**	**600**	**#12**	20/1	B	20/1	**#12**	**1000**	**P CART RECEP.**	76
77	**FLUSH SENSORS**	**300**	**#12**	**20/1**	C	**20/1**	**#12**	**1000**	**REFRIG. RM 1A-506**	78
79	**CAMERA POWER SUPPLY**	**500**	**#12**	**20/1**	A	**20/1**	**#12**	**720**	**RECEP. NURSE STATION**	80
81	SPARE	0		20/1	B	**20/1**	**#12**	**1000**	**FAUCET SENSORS**	82
83		0			C	**20/1**	**#12**	**1100**	**ICE MAKER RM 1A-506**	84

DEMAND LOAD CALC.	TOTAL→ PHASE A	PHASE B	PHASE C	CONNECTED LOAD KVA	AMPS	DEMAND LOAD KVA	AMPS	PANEL NOTES
LIGHTING X 125%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
RECEPTACLES @ 10KW+50%	26.9	25.2	25.6	77.7	215.7	43.9	121.7	
EQUIPMENT @ 100%	0.5	0.6	1.4	2.5	6.9	2.5	6.9	
HVAC COOLING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Total Demand KVA: 46.4
TOTAL ▼	27.4	25.8	27.0	80.2	222.6	46.4	128.7	Total Demand Amps: 128.7

PANEL SCHEDULE: 212SLA (LIFE SAFETY BRANCH) (EXISTING)

VOLTS/PHASE: 480Y/277V, 3PH, 4W
BUS AMPS: 60A — FAULT CURRENT:
MAIN SIZE/TYPE: 225A/MCB — A/C RATING:
MOUNTING: SURFACE — LOCATION:

SECTION 1

NO.	DESCRIPTION	LOAD/VA	WIRE	BKR.	PHASE	BKR.	WIRE	LOAD/VA	DESCRIPTION	NO.
1	EXISTING LOAD	750	EXIST.	20/1	A	20/1	EXIST.	750	EXISTING LOAD	2
3	EXISTING LOAD	750	EXIST.	20/1	B	20/1	EXIST.	750	EXISTING LOAD	4
5	**DOOR HARDWARE**	**1000**	**#12**	20/1	C	20/1	**#12**	**500**	**MEDGAS PANELS**	6
7	**DOOR HARDWARE**	**1000**	**#12**	20/1	A	20/1			SPARE	8
9	SPARE			20/1	B	20/1			SPARE	10
11	SPARE			20/1	C	20/1			SPARE	12
13	SPARE			20/1	A	20/1			SPARE	14
15	SPARE			20/1	B	20/1			SPARE	16
17	SPARE			20/1	C	20/1			SPARE	18
19	SPARE			20/1	A	20/1			SPARE	20
21	SPARE			20/1	B	20/1			SPARE	22
23	SPARE			20/1	C	20/1			SPARE	24
25	SPARE			20/1	A	20/1			SPARE	26
27	SPARE			20/1	B	20/1			SPARE	28
29	SPARE			20/1	C	20/1			SPARE	30
31	SPARE			20/1	A	20/1			SPARE	32
33	SPARE			20/1	B	20/1			SPARE	34
35	SPARE			20/1	C	20/1			SPARE	36
37	SPARE			20/1	A	20/1			SPARE	38
39	SPARE			20/1	B	20/1			SPARE	40
41	SPARE			20/1	C	20/1			SPARE	42

DEMAND LOAD CALC.	TOTAL→ PHASE A	PHASE B	PHASE C	CONNECTED LOAD KVA	AMPS	DEMAND LOAD KVA	AMPS	PANEL NOTES
LIGHTING X 125%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
RECEPTACLES @ 10KW+50%	1.5	1.5	0.0	3.0	3.6	3.0	3.6	
EQUIPMENT @ 100%	1.0	0.0	1.5	2.5	3.0	2.5	3.0	
HVAC COOLING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Total Demand KVA: 5.5
TOTAL ▼	2.5	1.5	1.5	5.5	6.6	5.5	6.6	Total Demand Amps: 6.6

PANEL SCHEDULE: 212NLB (NORMAL BRANCH) (EXISTING)

VOLTS/PHASE: 208Y/120V, 3PH, 4W
BUS AMPS: 150A — FAULT CURRENT:
MAIN SIZE/TYPE: 225A/MCB — A/C RATING:
MOUNTING: SURFACE — LOCATION:

SECTION 1

NO.	DESCRIPTION	LOAD/VA	WIRE	BKR.	PHASE	BKR.	WIRE	LOAD/VA	DESCRIPTION	NO.
1	EXISTING LOAD	750	EXIST.	20/1	A	20/1	EXIST.	750	EXISTING LOAD	2
3	EXISTING LOAD	750	EXIST.	20/1	B	20/1	EXIST.	750	EXISTING LOAD	4
5	EXISTING LOAD	750	EXIST.	20/1	C	20/1	EXIST.	750	EXISTING LOAD	6
7	EXISTING LOAD	750	EXIST.	20/1	A	20/1	EXIST.	750	EXISTING LOAD	8
9	EXISTING LOAD	750	EXIST.	20/1	B	20/1	EXIST.	750	EXISTING LOAD	10
11	EXISTING LOAD	750	EXIST.	20/1	C	20/1	EXIST.	750	EXISTING LOAD	12
13	EXISTING LOAD	750	EXIST.	20/1	A	20/1	EXIST.	750	EXISTING LOAD	14
15	EXISTING LOAD	750	EXIST.	20/1	B	20/1	EXIST.	750	EXISTING LOAD	16
17	EXISTING LOAD	750	EXIST.	20/1	C	20/1	EXIST.	750	EXISTING LOAD	18
19	EXISTING LOAD	750	EXIST.	20/1	A	20/1	EXIST.	750	EXISTING LOAD	20
21	EXISTING LOAD	750	EXIST.	15/1	B	20/1	EXIST.	750	EXISTING LOAD	22
23	EXISTING LOAD	750	EXIST.	20/1	C	30/2	EXIST.	750	EXISTING LOAD	24
25	EXISTING LOAD	750	EXIST.	30/2	A			750		26
27		750			B	20/1	**#12**	**900**	**RECEP. BED 9 & 10**	28
29	EXISTING LOAD	750	EXIST.	20/1	C	20/1	**#12**	**540**	**RECEP. NURSE STATION**	30
31	EXISTING LOAD	750	EXIST.	20/1	A	20/1	**#12**	**1260**	**RECEP. RESTROOMS**	32
33	**RECEP. BED 1 & BED2**	**1440**	**#12**	20/1	B	20/1	**#12**	**1000**	**RECEP. BREAK ROOM**	34
35	**RECEP. SOCIAL WORK**	**1080**	**#12**	20/1	C	20/1	**#12**	**1000**	**RECEP. BREAK ROOM**	36
37	**RECEP. BED 3 & 4**	**900**	**#12**	20/1	A	20/1	**#12**	**500**	**DRINKING FOUNTAIN**	38
39	**RECEP. BED 5 & 6**	**900**	**#12**	**20/1**	B	20/1	**#12**	**540**	**RECEP. NURSE STATION**	40
41	**RECEP. BED 7 & 8**	**900**	**#12**	**20/1**	C	20/1			SPARE	42

DEMAND LOAD CALC.	TOTAL→ PHASE A	PHASE B	PHASE C	CONNECTED LOAD KVA	AMPS	DEMAND LOAD KVA	AMPS	PANEL NOTES
LIGHTING X 125%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
RECEPTACLES @ 10KW+50%	10.9	11.5	10.3	32.7	90.8	21.4	59.3	
EQUIPMENT @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC COOLING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
HVAC HEATING @ 100%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
KITCHEN @ NEC 220.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LARGEST MOTOR @ 1.25%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SUB PANELS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Total Demand KVA: 21.4
TOTAL ▼	10.9	11.5	10.3	32.7	90.8	21.4	59.3	Total Demand Amps: 59.3

Revisions	Date

CONSULTANTS:

GLMV Architecture
1160 Dairy Ashford, Suite 200
Houston TX 77079
Tel: (281) 870-1914 Fax: (281) 870-1734
www.glmv.com

Garner-Fritsche ENGINEERING, INC.
6565 West Loop South, Suite 560, Bellaire, TX 77401
713.432.1422 - Fax 713.432.1253
www.garnerfritsche.com
Texas Reg. No. F-5712
GFE Project No. 13064

STATE OF TEXAS — GREG W. MERCER — 114431 — LICENSED PROFESSIONAL ENGINEER — 12-1-15

ARCHITECT/ENGINEERS:

Atriax GROUP

Drawing Title: PANEL SCHEDULES ELECTRICAL

Approved Project Director: - - VAPAHCS PLANNING AND ENGINEERING

Project Title: 580-13-403: Renovate 2nd Floor B-100 for Diagnostic and Therapy Care Line

Location: MEDICAL CENTER HOUSTON TX

Date: 09/30/2014 — Checked: AEF — Drawn: LEE

Project Number: 580-13-403

Building Number: B-100

Drawing Number: E002

Dwg. 25 of 40

CONSTRUCTION DOCUMENTS SUBMISSION

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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